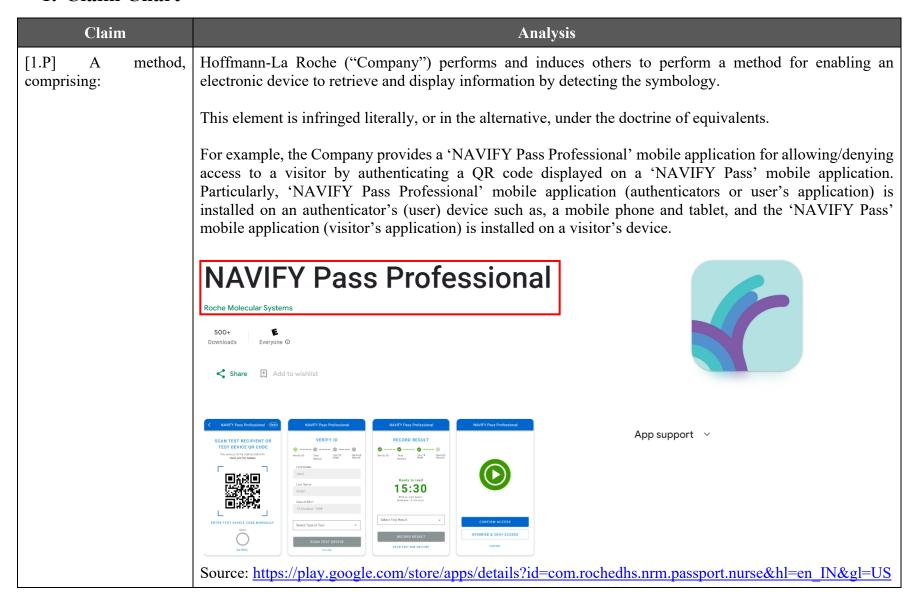
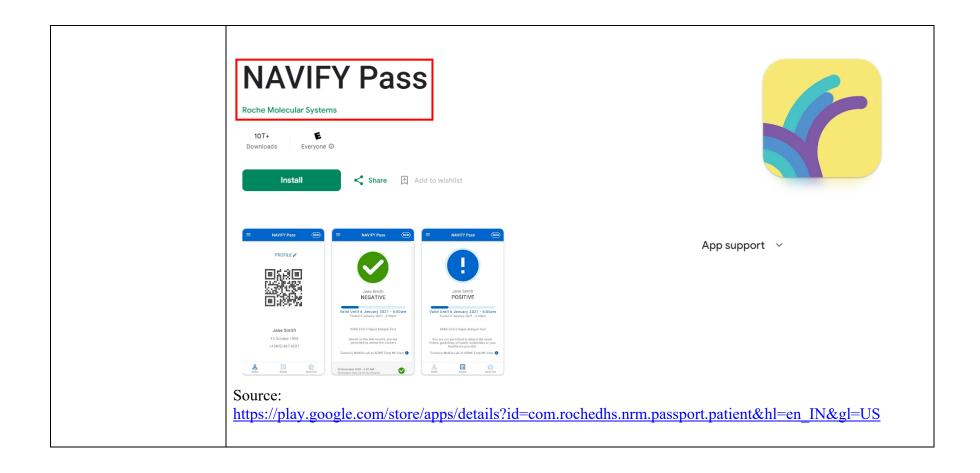
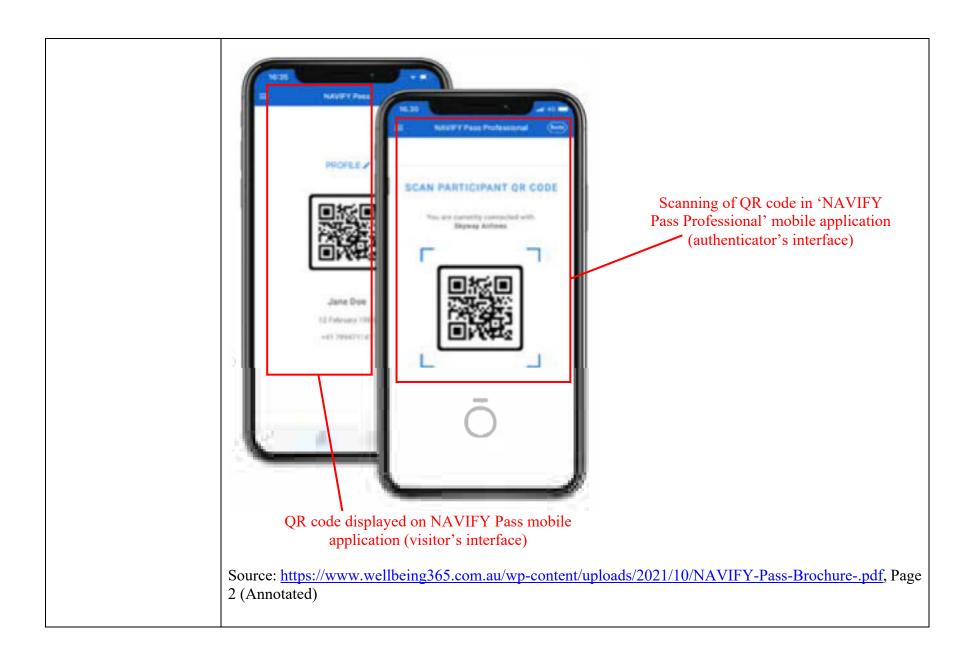
U.S. Patent No. 8,936,190 v. Hoffmann-La Roche

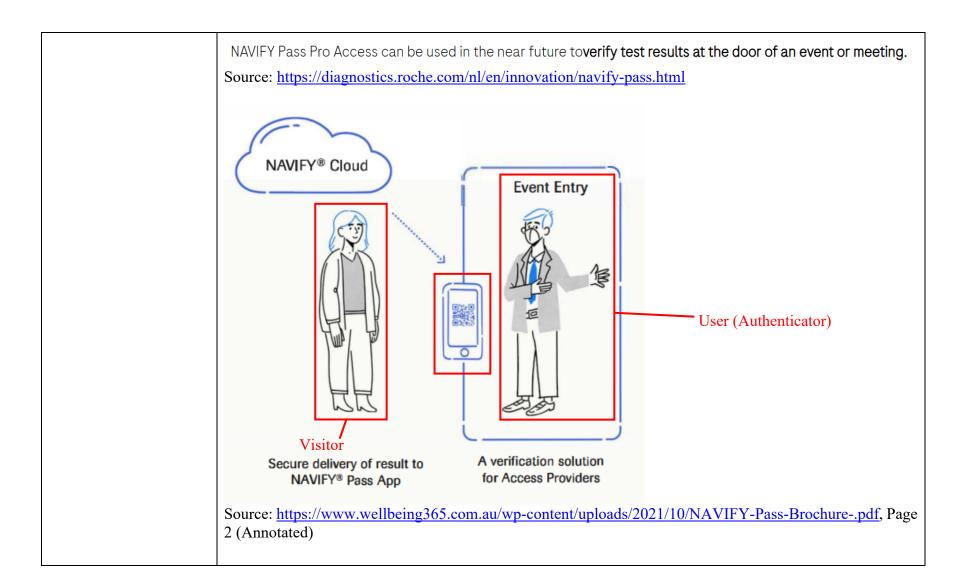
## 1. Claim Chart







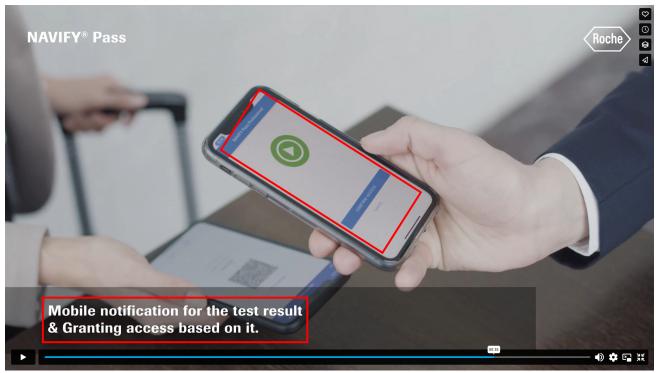




## **Event Management Tool**

- Event entry can be managed by predefined entry criteria
- NAVIFY® Pass users can display their personal QR code as authentication
- NAVIFY® Pass users can display their approved entry without sharing personal information such as test or vaccination details

Source: <a href="https://www.wellbeing365.com.au/wp-content/uploads/2021/10/NAVIFY-Pass-Brochure-.pdf">https://www.wellbeing365.com.au/wp-content/uploads/2021/10/NAVIFY-Pass-Brochure-.pdf</a>, Page 2



Source: <a href="https://vimeo.com/538550959">https://vimeo.com/538550959</a>

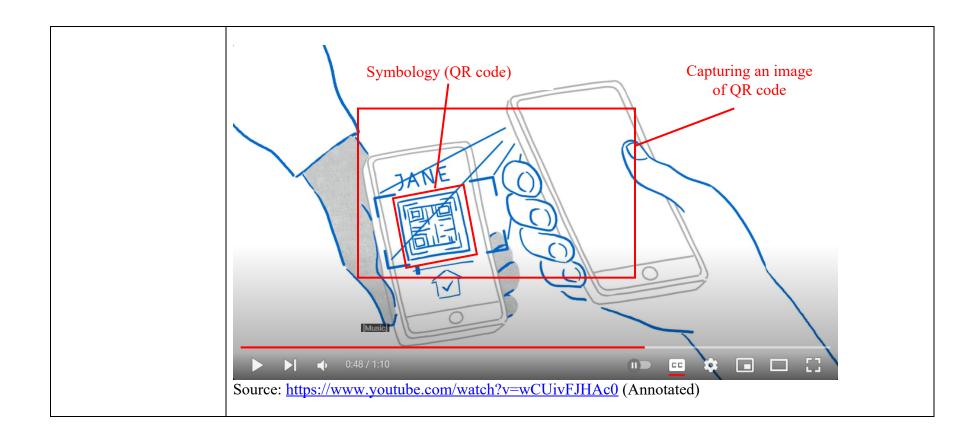
Further, to the extent this element is performed at least in part by Defendant's software source code, Plaintiff shall supplement these contentions pursuant to production of such source code by the Defendant.

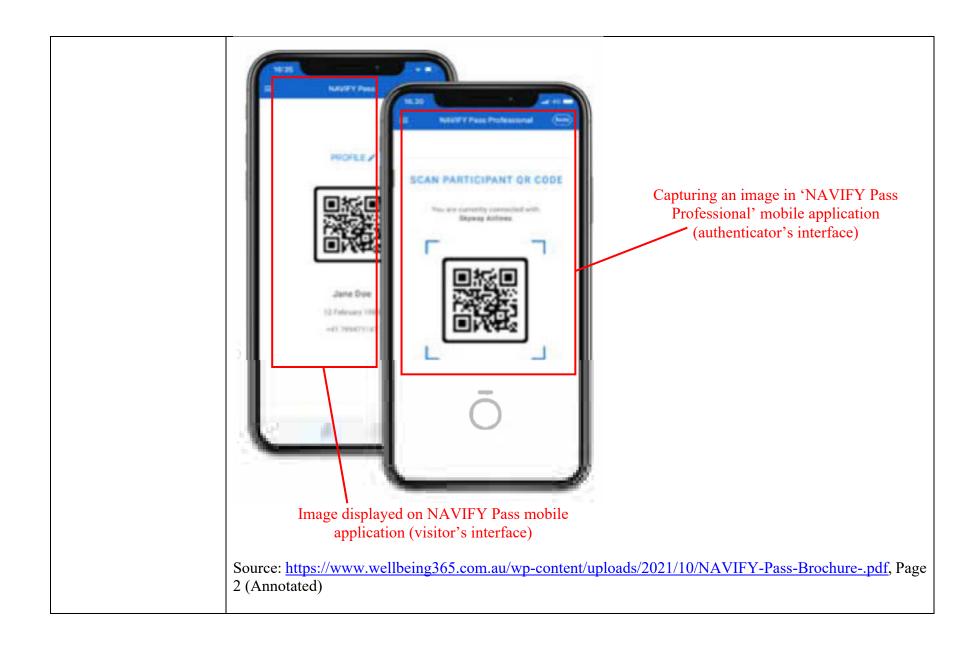
[1.1] capturing a digital image using a digital image capturing device that is part of an electronic device;

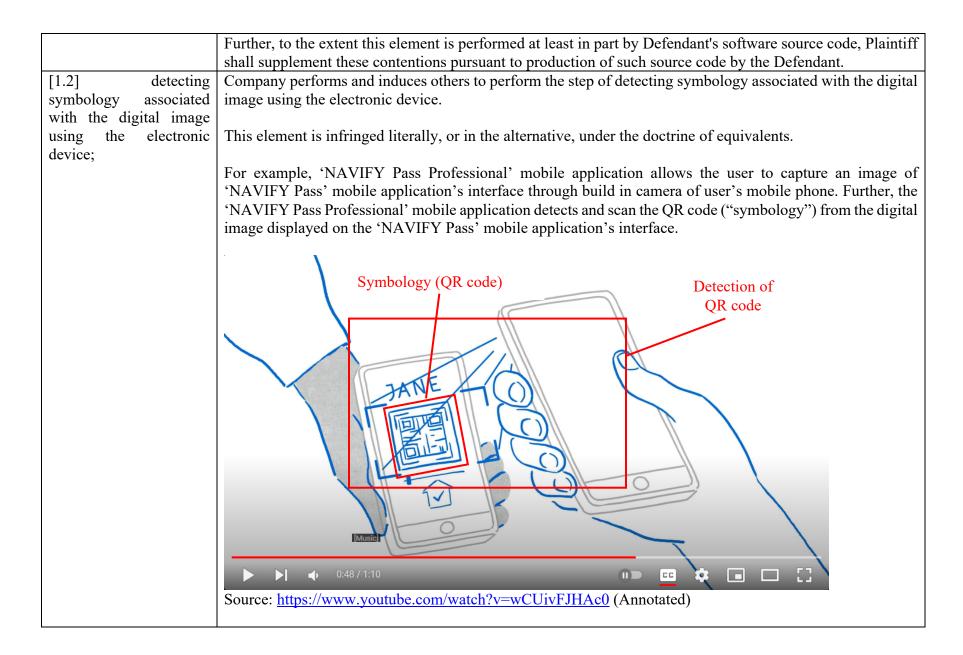
Company performs and induces others to perform the step of capturing a digital image using a digital image capturing device that is part of an electronic device.

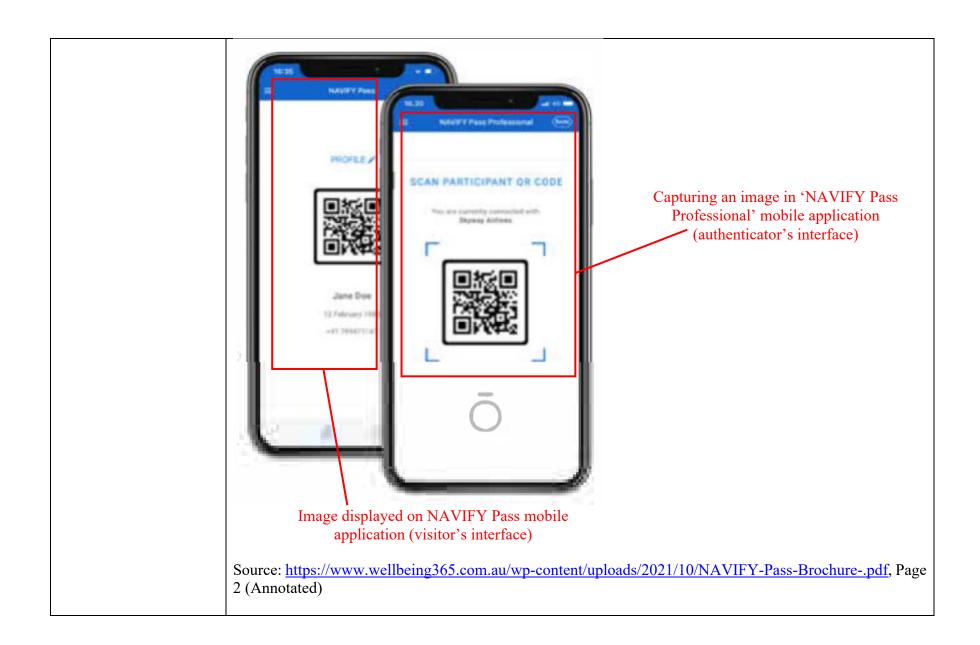
This element is infringed literally, or in the alternative, under the doctrine of equivalents.

For example, the 'NAVIFY Pass Professional' mobile application allows a user to capture and scan the QR code image ("digital image") available on the visitor's application through a built-in camera ("digital image capturing device") of the user's mobile phone ("electronic device") for allowing/denying access.

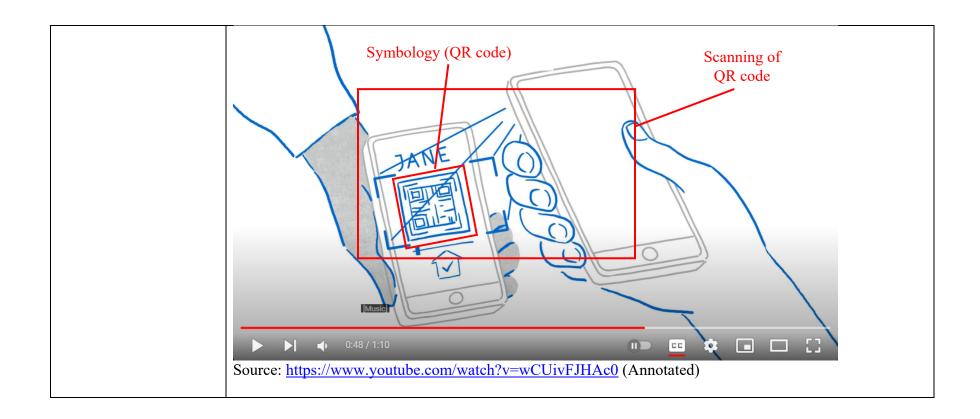


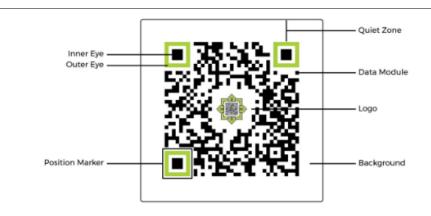






	Further, to the extent this element is performed at least in part by Defendant's software source code, Plaintiff
	shall supplement these contentions pursuant to production of such source code by the Defendant.
[1.3] decoding the	Company performs and induces others to perform the step of decoding the symbology to obtain a decode
symbology to obtain a	string using one or more visual detection applications residing on the electronic device.
decode string using one	
or more visual detection	This element is infringed literally, or in the alternative, under the doctrine of equivalents.
applications residing on	
the electronic device;	For example, the 'NAVIFY Pass Professional' ("visual detection applications") mobile application installed
	("residing") on the mobile phone ("electronic device") scans the QR code and decodes it at the backend.
	Further, the scanning involves interpretation of the black and white patterns of the QR code to extract the
	embedded data. The extracted data is converted into a machine-readable data which contains a unique
	identifier ("decode string") that corresponds to the user's account. Therefore, it would be apparent to a person
	of ordinary skill in the art that the NAVIFY Pass Professional mobile application decodes the QR code to
	obtain the unique identifier at the backend that corresponds to the test results of a visitor for allowing/denying
	access.





Parts of a QR code

The most important parts of a QR code are:

Data module. This is the standard unit of the QR code. It's typically
a black square set against a white background. Though the colors
and contrast can be different, black-on-white is the most optimal
when creating a <u>custom QR code</u>. The arrangement of these black
squares, or data modules, is what makes up the majority of a QR
code.

 $\label{eq:source:bounds:sour$ 

In the QR code, the arrangement of the squares—or data modules, as they're called—is actually our URL. It's just been translated from the alphanumeric string of the URL into a collection of squares. That's how you go from <a href="link to QR code">link to QR code</a>. A QR code scanner will then translate it back to the original URL.

Source: <a href="https://www.sproutqr.com/blog/how-do-qr-codes-work#">https://www.sproutqr.com/blog/how-do-qr-codes-work#">https://www.sproutqr.com/blog/how-do-qr-codes-work#">https://www.sproutqr.com/blog/how-do-qr-codes-work#">https://www.sproutqr.com/blog/how-do-qr-codes-work#">https://www.sproutqr.com/blog/how-do-qr-codes-work#">https://www.sproutqr.com/blog/how-do-qr-codes-work#</a>

QR codes consist of black squares arranged in a grid (matrix) on a white background and are read by specialized software that is able to extract data from the patterns that are present in the matrix. These codes are capable of containing more information than traditional barcodes, and primarily handle four modes of data: alphanumeric, numeric, binary, and Kanji.

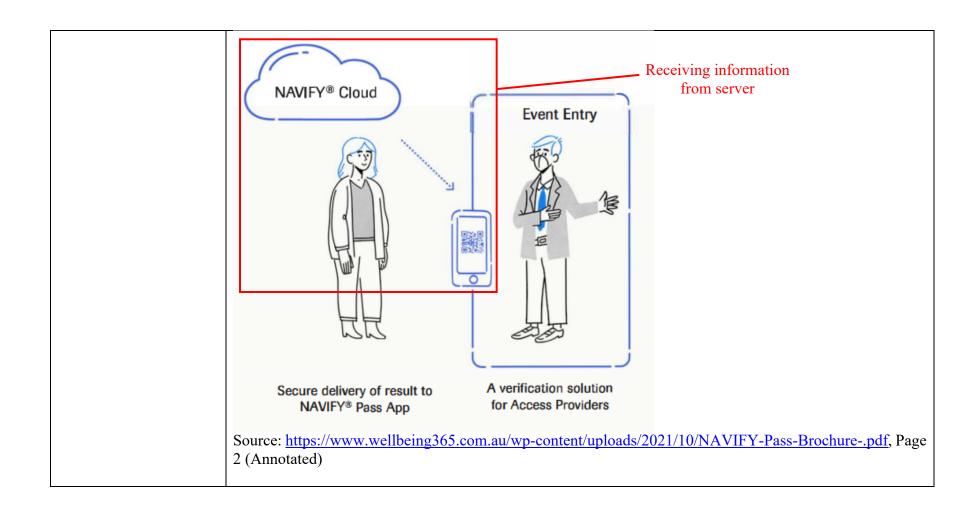
Source: <a href="https://www.investopedia.com/terms/q/quick-response-qr-code.asp">https://www.investopedia.com/terms/q/quick-response-qr-code.asp</a>

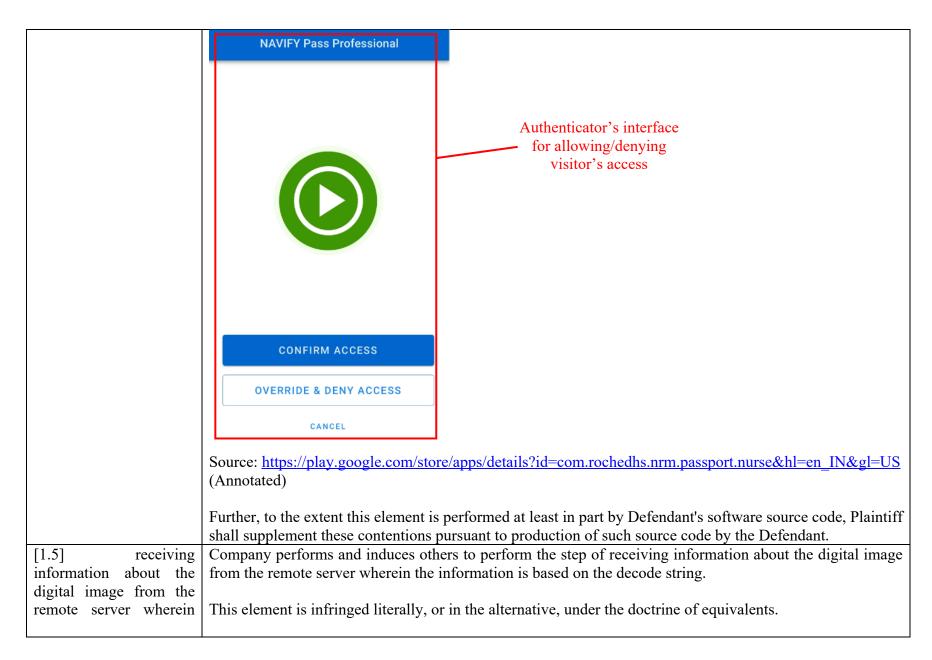
Further, to the extent this element is performed at least in part by Defendant's software source code, Plaintiff shall supplement these contentions pursuant to production of such source code by the Defendant.

[1.4] sending the decode string to a remote server for processing; Company performs and induces others to perform the step of sending the decode string to a remote server for processing.

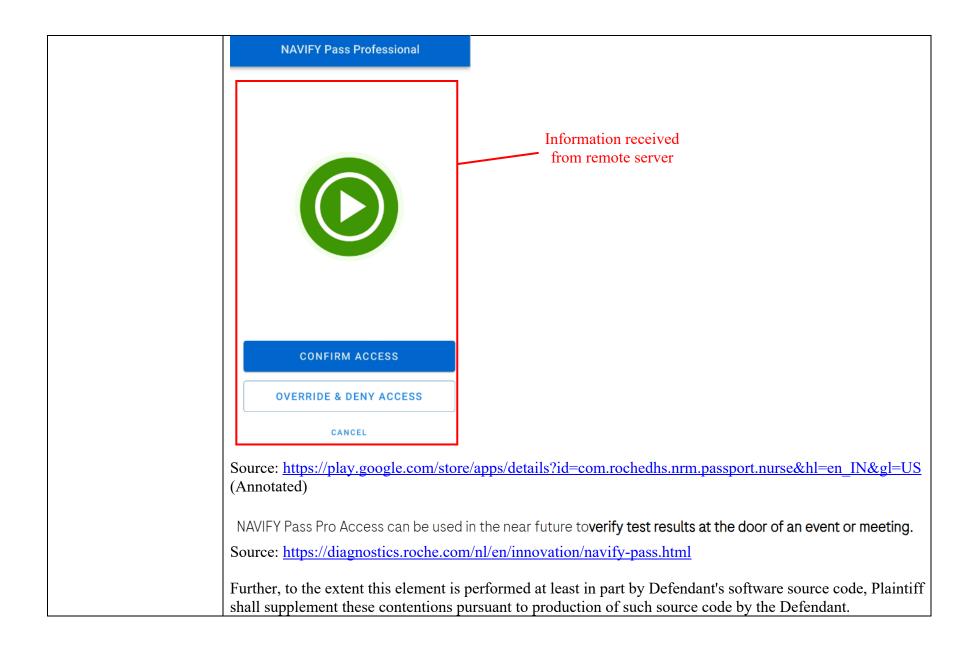
This element is infringed literally, or in the alternative, under the doctrine of equivalents.

For example, upon detecting the QR code and obtaining a decode string, the 'NAVIFY Pass Professional' mobile application sends the decode string to NAVIFY cloud ("remote server") for retrieving the information such as test results of the visitor.

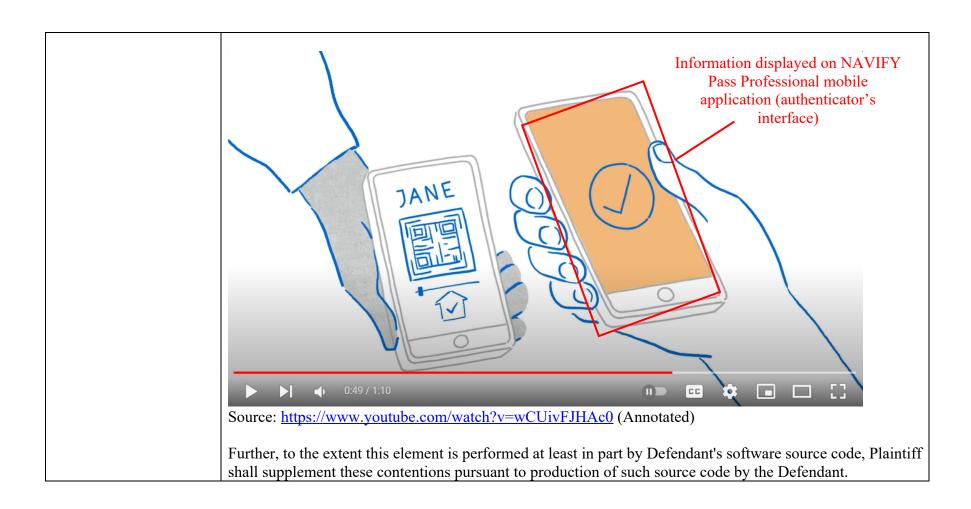




For example, the 'NAVIFY Pass Professional' mobile application accessible on the user's mobile phone the information is based on the decode string; receives the information such as test results from the remote server based on the decoded QR code. Receiving information from server NAVIFY® Cloud **Event Entry** A verification solution Secure delivery of result to for Access Providers NAVIFY® Pass App Source: https://www.wellbeing365.com.au/wp-content/uploads/2021/10/NAVIFY-Pass-Brochure-.pdf, Page 2 (Annotated)



Company performs and induces others to perform the step of displaying the information on a display device displaying [1.6] associated with the electronic device. information on a display device associated with the electronic device. This element is infringed literally, or in the alternative, under the doctrine of equivalents. For example, the received information is displayed on the screen ("display device") of ("associated with") the user's mobile phone ("electronic device"). **NAVIFY Pass Professional** Information displayed on NAVIFY Pass Professional mobile application (authenticator's interface) **CONFIRM ACCESS OVERRIDE & DENY ACCESS** CANCEL Source: https://play.google.com/store/apps/details?id=com.rochedhs.nrm.passport.nurse&hl=en IN&gl=US (Annotated)



## 2. List of References

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- 2. <a href="https://play.google.com/store/apps/details?id=com.rochedhs.nrm.passport.patient&hl=en\_IN&gl=US">https://play.google.com/store/apps/details?id=com.rochedhs.nrm.passport.patient&hl=en\_IN&gl=US</a>, last accessed on December 18, 2023.
- 3. <a href="https://www.wellbeing365.com.au/wp-content/uploads/2021/10/NAVIFY-Pass-Brochure-.pdf">https://www.wellbeing365.com.au/wp-content/uploads/2021/10/NAVIFY-Pass-Brochure-.pdf</a>, last accessed on December 18, 2023.
- 4. <a href="https://diagnostics.roche.com/nl/en/innovation/navify-pass.html">https://diagnostics.roche.com/nl/en/innovation/navify-pass.html</a>, last accessed on December 18, 2023.
- 5. <a href="https://www.youtube.com/watch?v=wCUivFJHAc0">https://www.youtube.com/watch?v=wCUivFJHAc0</a>, last accessed on December 18, 2023.
- 6. <a href="https://www.sproutqr.com/blog/how-do-qr-codes-work#:~:text=In%20the%20code%2C%20the,back%20to%20the%20original%20URL">https://www.sproutqr.com/blog/how-do-qr-codes-work#:~:text=In%20the%20QR%20code%2C%20the,back%20to%20the%20original%20URL</a>, last accessed on December 18, 2023.
- 7. <a href="https://www.investopedia.com/terms/q/quick-response-gr-code.asp">https://www.investopedia.com/terms/q/quick-response-gr-code.asp</a>, last accessed on December 18, 2023.
- 8. <a href="https://vimeo.com/538550959">https://vimeo.com/538550959</a>, last accessed on December 18, 2023.